- 8) (NEW) The method according to claim 7, wherein said firing is performed at least two times.
- 9. (NEW) The method according to claim 8, wherein the firing temperature is raised each additional time firing to performed to a temperature higher than that of the previous firing.
- 10. (NEW) The method according to claim 9, further comprising at least one pulverization step performed after each firing.
- 11. (NEW) The method according to claim 10, wherein a mean particle size of pulverized powder after pulverization is 10 μm or less.
- 12. (NEW) The method according to claim 5, wherein at least one of the crystallite size and lattice distortion of the lithium manganese oxide are controlled by:

mixing lithium-containing compounds with magnesium-containing compounds to form a mixture;

firing the mixture in an oxidizing atmosphere at a temperature of 650°C to 1000°C for 5 to 50 hours to form an intermediate material;

pulverizing the intermediate material to form a pulverized material; and firing the pulverized mixture in an oxidizing atmosphere at a temperature of 650°C to 1000°C for 5 to 50 hours to form a final material.

- 13. (NEW) The method according to claim 12, wherein the intermediate material is fired at a lower temperature than the final material.
- 14. (NEW) The method according to claim 12, wherein the mean particle size of the pulverized mixture is 10 μ m or less.
- 15. (NEW) The method according to claim 12, wherein said compounds include at least one of (i) salts and oxides of lithium and (ii) salts and oxides of manganese.

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